Form PTO-1449
(Rev. 2-88)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.	APPLICATION NO.
7162-105	10/681,712
APPLICANT: Delgado, et al.	
FILING DATE: ~~Filed herewith~~ 10/8/03	GROUP: 2821

U.S. PATENT DOCUMENTS

EXAMINER'S INITIAL	Cite No.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JV	56	10/439,094		Delgado, et al.			5/15/2003
JV	106	10/448,973		Delgado, et al.			5/30/2003
JV	57	10/654,153		Delgado, et al.			9/3/2003
JV		5,600,325	2/4/1997	Whelan, et al.	342	13	
JV		5,724,052	3/3/1998	Boulingre, et al.	264	675	
JV		6,424,308	7/23/2002	Wu, et al.	343	753	

FOREIGN PATENT DOCUMENTS

			DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

JV			Marques, Ricardo; Medina, Francisco; and Rafii-El-Idrissi, Rachid; "Role of bianisotropy in negative permeability and left handed metamaterials" The American Physical Society, pg. 65. <http://physics.uscs/~drs/publications/marques_prb_2002.pdf>

EXAMINER: [signature] DATE CONSIDERED: 05/26/05

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(Use as many sheets as necessary)

Sheet 1 of 3

Complete if Known	
Application Number	10/681,712
Filing Date	Oct. 8, 2003
First Named Inventor	DELGADO
Art Unit	2821
Examiner Name	~~WONG, Don~~ JIMMY VU
Attorney Docket Number	7162-0105

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JV		US- 3,581,243	05/25/1971	ALFORD	
JV		US- 5,714,112	02/03/1998	HAZEYAMA, et al.	264/175
JV		US- 3,681,716	08/01/1972	CHIRON, et al.	
JV		US- 4,638,271	01/20/1987	JECKO, et al.	333/205
JV		US- 4,967,171	10/30/1990	BAN, et al	333/116
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
JV		JP 2000307362	11/02/2000	MITSUBISHI ELEC		
JV		JP 10/190321	07/21/1998	NEC CORP		
JV		JP 56-123102	09/28/1981	MITSUBISHI ELEC		
JV		JP 05-211402	08/20/1983	FURUKAWA ELEC		
JV		JP 07-015218	01/17/1995	FUJI ELEC		
JV		JP 08-154006	06/11/1996	MURATA MFG		

Examiner Signature		Date Considered	

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JV		WO 01-01453 A2	01/04/2001	SUN MICROSYS		
JV		EP 1 108 533	06/20/2001	KONICA CORP		
JV		EP 0 754 660 A1	01/22/1997	TDK CORP		
JV		EP 1 089 374 A2	04/04/2001	KABUSHIKI KAISH		
JV		JP 08 307117	11/22/1996	TASIE		

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Art Unit	2821
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Attorney Docket Number	7162-0105

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
JV		ITOH, T.; et al: "Metamaterials Structures, Phenomena and Applications" IEEE Transactions on Microwave Theory and Techniques; April, 2005; [Online} Retrieved from the Internet: URL:www.mtt.org/publications/ Transactions/CFP_Metamaterials.pdf>	
JV		KIZILTAS, G.; et al: "Metamaterial design via the density method" IEEE Antennas and Propagation Society Int'l Symposium 2002, vol. 1, 16 June 2002 pp 748-751, Piscataway	
JV		SALAHUN, E.; et al: "Ferromagnetic composite-based and magnetically-tunable microwave devices" IEEE MTT-S Microwave Symposium Digest, Vol. 2, 2 Jun 2002 pp1185-1188	

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